

RE: WSDOE WAR306648

Dear Agency Permit Administrator,

Electron Hydro, LLC gave notice that construction of a temporary river bypass channel, as authorized by the above-referenced permits, has resulted in a limited solid particulate discharge to the Puyallup River. A plastic liner has been installed as part of the temporary flow bypass. The liner was intended to minimize the intrusion of water into the spillway replacement work area and minimize erosion of the riverbed and banks. The liner is constructed of HDPE thermo-welded plastic. Beneath the surface liner a cushion layer of used astro-turf that was placed to minimize the potential for damage to the primary HDPE liner as it passes over the existing wooden diversion structure and riverbed rock. Some of the astro-turf layer contained residual amounts of fine granulated rubber particles.

The timeline of events:

Dates	Activity
7/15/2020	Initiated in-water work waterward of ordinary high-water mark
7/20 – 7/27/2020	Constructed temporary cofferdam, installed liner within bypass channel including base geotextile and Field Turf as an underlayment to protect the bypass channel liner.
7/28/2020	Diverted river flow into bypass channel
7/30/2020	After the river flow was diverted into the bypass channel, a portion of the downstream liner ruptured and transported Field Turf material and HDPE liner downstream.
7/30 - 8/7/2020	Surveyed distribution of Field Turf and HDPE liner within 4000 ft downstream of work area and removed those materials from the river for disposal.
8/4/2020	Electron Hydro notified the Corps, Pierce County, and WDFW that a limited release of material had occurred.
8/6/2020	Received stop work notice from Pierce County and Corps.

The river ran heavily for the period between July 26 - August 4 with discharges ranging 500-1000 cfs. Some damage undermining of the HDPE liner occurred during this period. Of the 2,409 square yards of the astro-turf, approximately 617 square yards of the underlayment and HDPE liner were removed. However, the 1,792 square yards of HDPE liner continues to perform its intended function of minimizing water intrusion and astro-turf remains in place beneath it. Electron Hydro immediately, once flows allowed, started to survey and remove material for disposal for approximately 4,000 feet below the diversion.

Electron will carefully remove and contain all remaining temporary bypass flume materials and structure, including the astro-turf, upon completion of the spillway replacement project by

September 15th. The spillway replacement is the most essential element to complete to enable the landward construction of the flume fish and sediment exclusion facilities known as Phase II.

At this point Electron does not have evidence of any significant continuing discharge of particulates from the astro-turf.

Materials to be placed in the river or the adjacent riparian zone will meet the permit requirements. The best way to prevent further violations to water quality will be to comply with all permit requirements and follow approved clean-up plans. meet the procedures the being proposed and under development for Water Quality Monitoring, Turf Removal, and monitoring of all construction activity in the Stormwater Pollution Prevention Plan work area.

Please contact Steve Goodrich, P.E. for any follow up.

Thank you for your time,

Steven P. Goodrich, P.E.

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